

FIG. 1 is a block diagram of a network system 100. The network system 100 includes a central cloud 101 connected to various components. On the left, a group of desktop computers 107 is connected to a hub 103, which is connected to the cloud 101 via a router 109. On the right, another group of desktop computers 107 is connected to a hub 104, which is connected to the cloud 101 via a router 109. The cloud 101 is also connected to an ISP 106, which is connected to a PSTN 108. A server 111 is connected to the cloud 101 via a router 109. A mobile phone 107 is connected to the PSTN 108 via a lightning bolt symbol. The network system 100 is labeled with a reference numeral 100.

FIG. 1

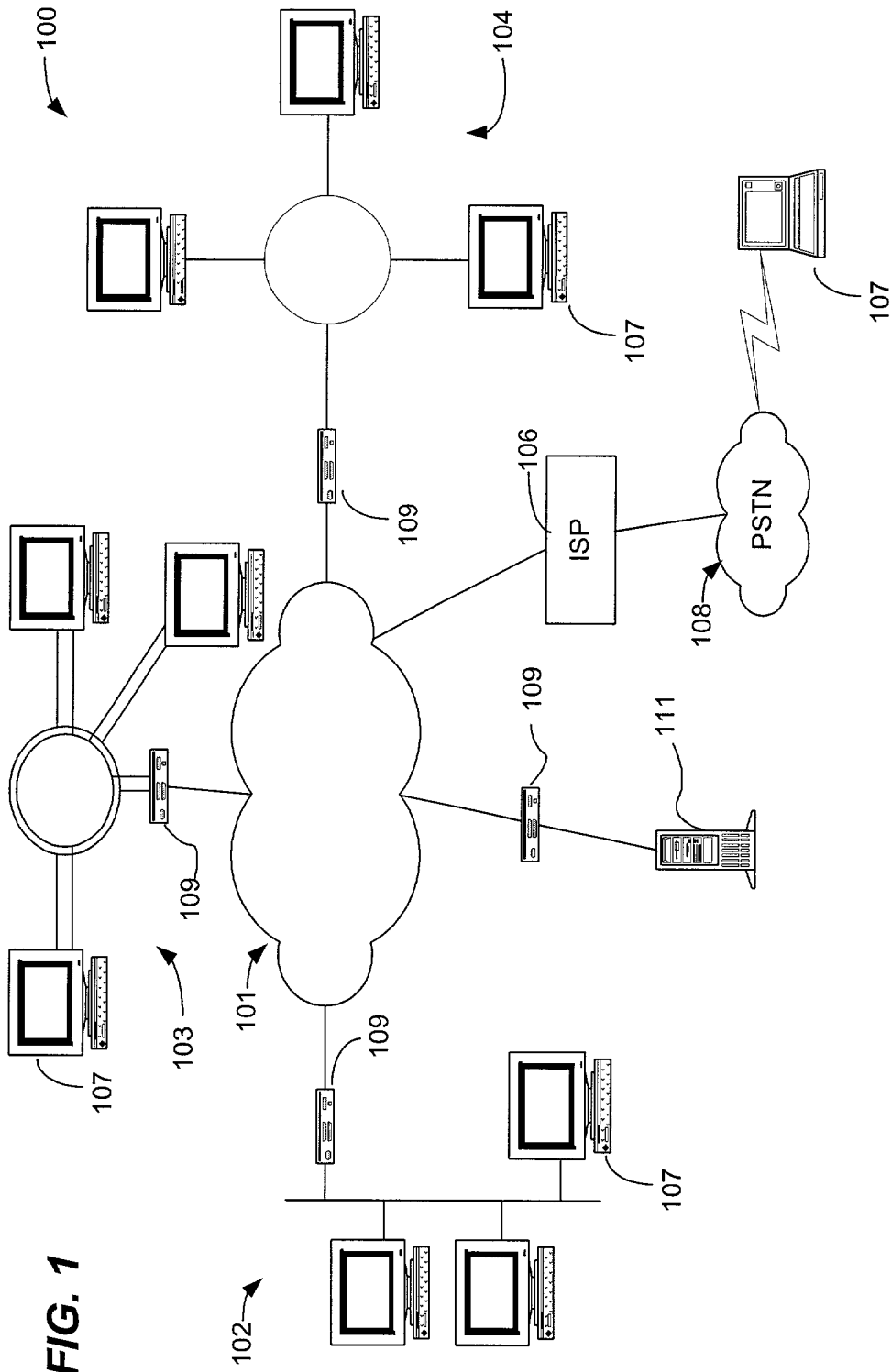


FIG. 2 is a block diagram of a system architecture. The system includes a set of clients (205) connected to a set of front ends (201). The front ends are connected to a set of back ends (202). The back ends are connected to a set of servers (210). The front ends are also connected to a front end manager (207). The back ends are connected to a back end manager (209). The front end manager (207) and the back end manager (209) are connected to each other.

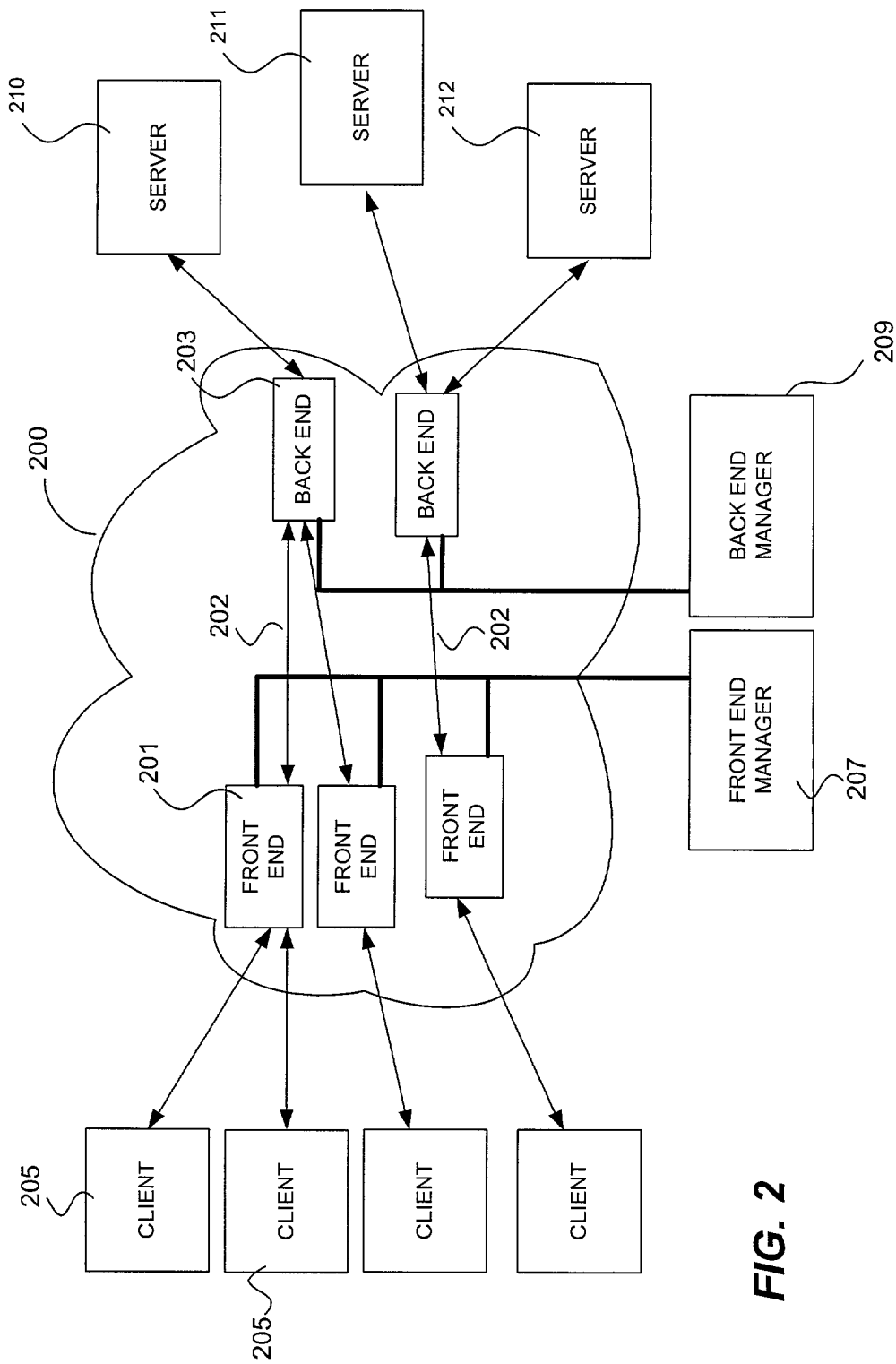


FIG. 2

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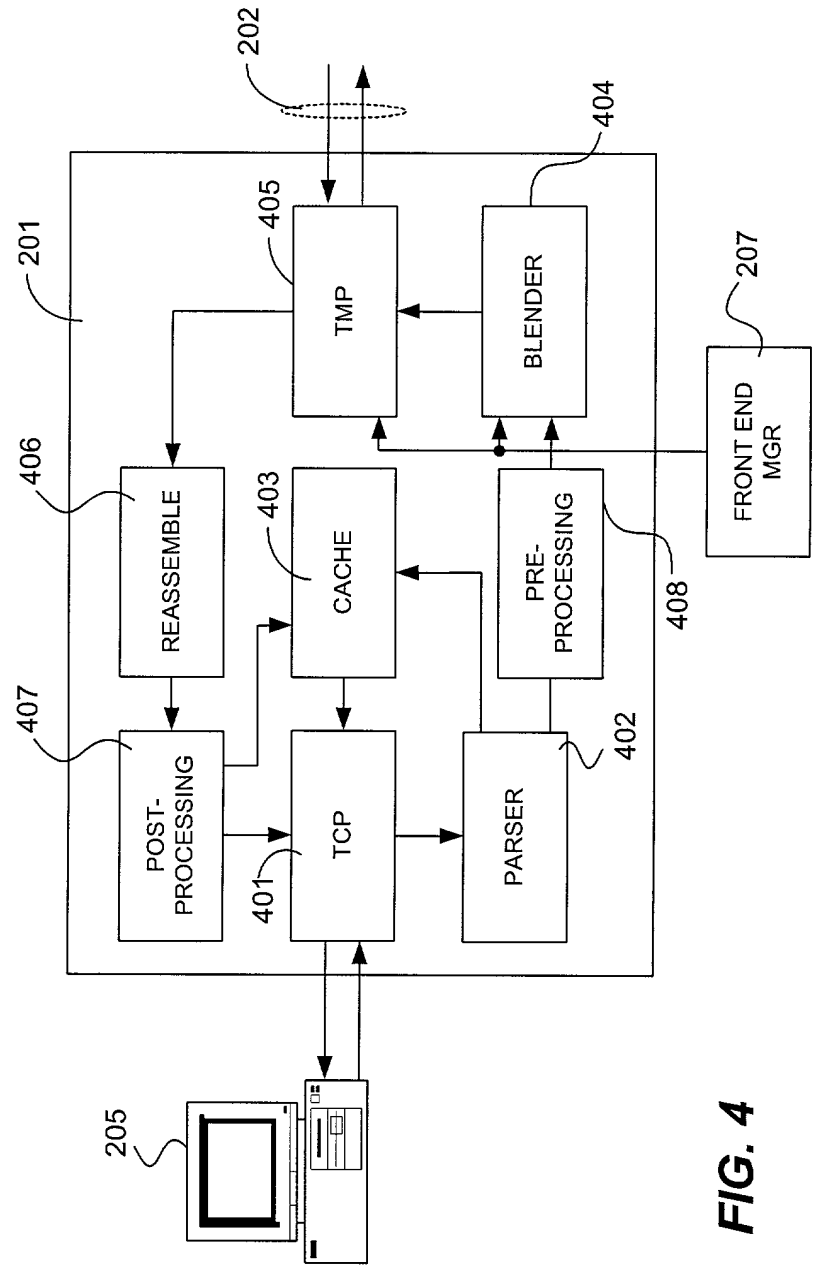


FIG. 4

FIG. 5 is a block diagram of a system architecture for data processing. The system includes a BACK END MGR (209) connected to a DATA BLENDER (504). The DATA BLENDER is connected to a PRE-PROCESSING block (502) and a TMP block (505). The PRE-PROCESSING block is connected to a CACHE (503) and a TCP block (501). The CACHE is connected to the TMP block and a POST-PROCESSING block (506). The TMP block is connected to the REASSEMBLE block (506). The REASSEMBLE block is connected to the POST-PROCESSING block. The POST-PROCESSING block is connected to the TCP block. The TCP block is connected to a server (210). The system is connected to a network (202). The system is labeled 203.

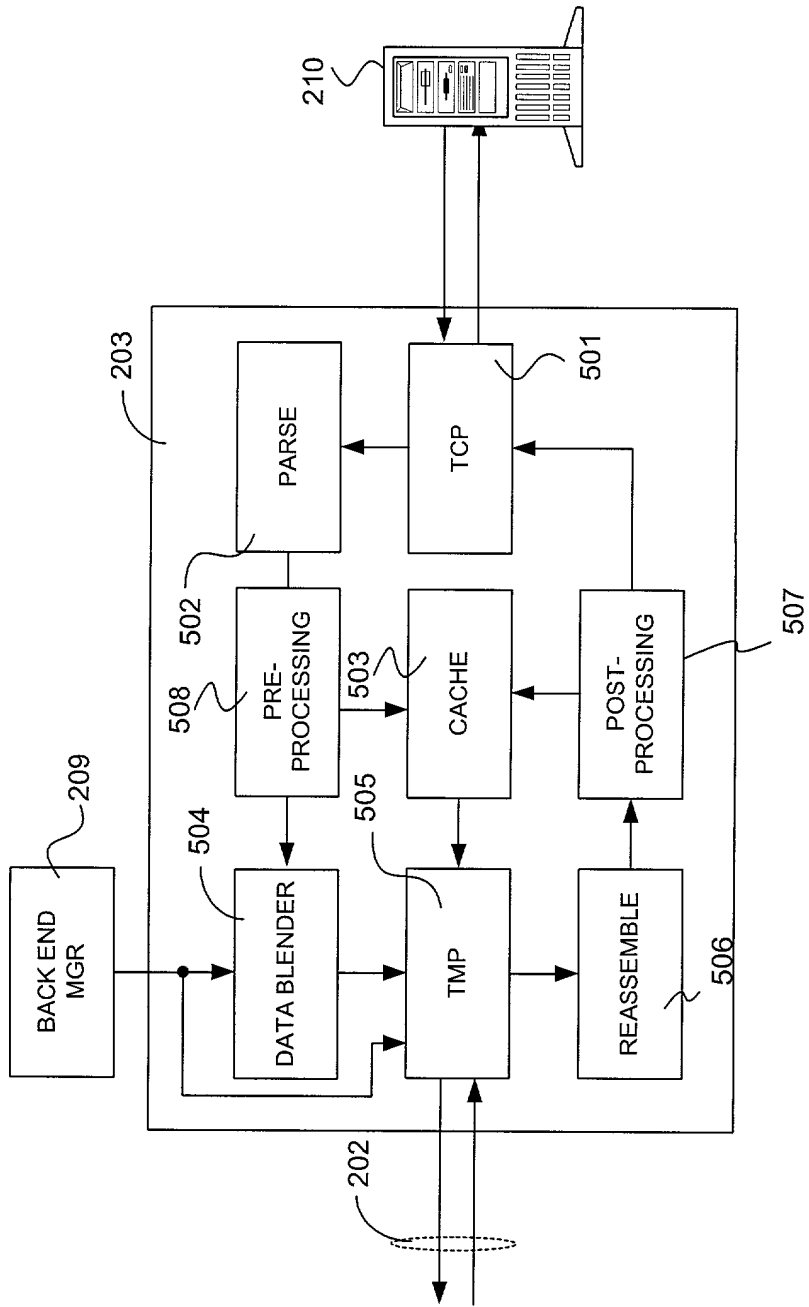


FIG. 5

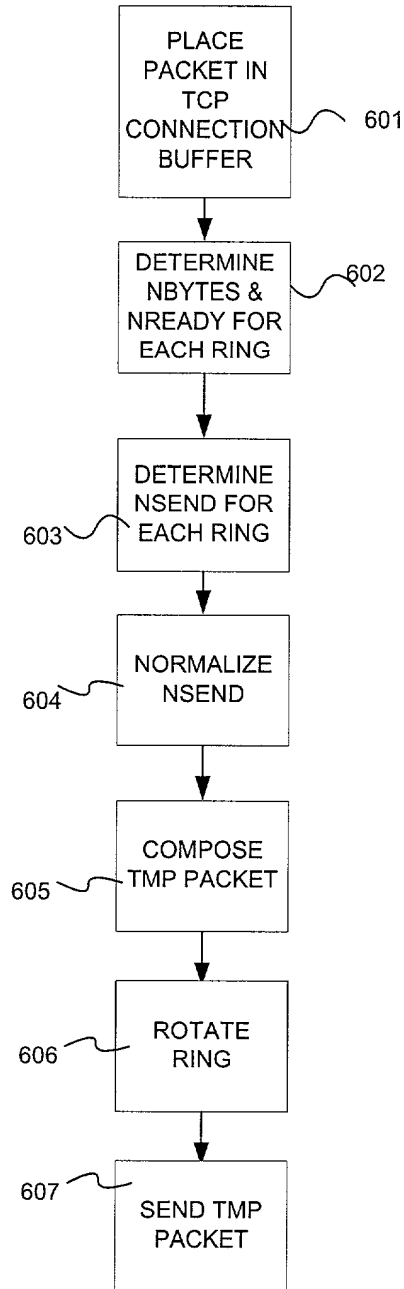
**FIG. 6**

FIG. 7 is a block diagram of a network processing system 700. The system 700 includes a PREPROCESS block 408, a BLENDER block 404, a QOS block 708, a TIME-SYNC block 707, and a TMP UNIT block 705. The PREPROCESS block 408 receives four TCP SOCKET inputs 701 and outputs four BUFFER outputs 702 to the BLENDER block 404. The BLENDER block 404 outputs to the QOS block 708 and the TIME-SYNC block 707. The QOS block 708 and the TIME-SYNC block 707 both output to the TMP UNIT block 705. The TMP UNIT block 705 outputs to a final output 202.

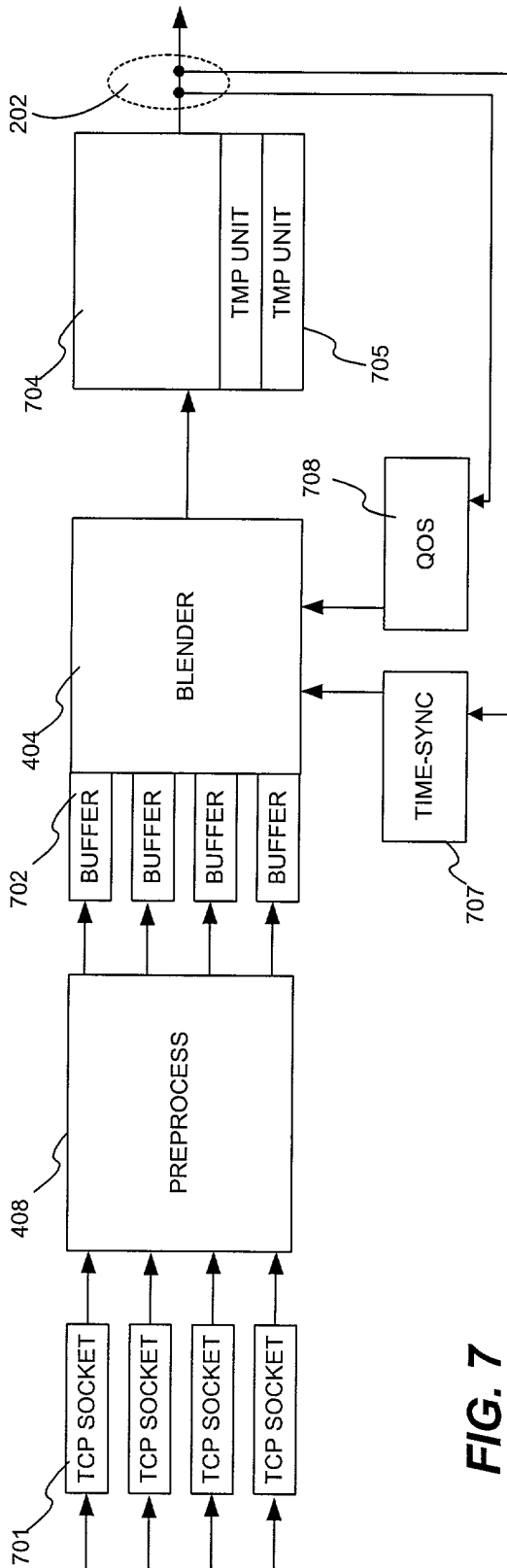


FIG. 7

